

ThinkPad P1 (2nd Gen) 20QT005PUS

Product

ThinkPad P1 (2nd Gen)

Region

NA

Country/Region

USA

Machine Type

20QT

TopSeller

TopSeller

Processor

Intel Core i9-9880H (8C / 16T, 2.3 / 4.8GHz, 16MB)

Graphics

NVIDIA Quadro T2000 4GB GDDR5

Chipset

Intel CM246

Memory

1x 32GB SO-DIMM DDR4-2666 non-ECC

Storage

1TB SSD M.2 2280 PCIe NVMe Opal2

RAID

No

Display

15.6" UHD (3840x2160) OLED 400nits AR (anti-reflection) / AS (anti-smudge), 100% DCI-P3 Gamut, Dolby Vision HDR

Touchscreen

10-point Multi-touch

Pen

None

Media Reader

SD Card Reader

Ethernet

100/1000M via Optional Adapter

Optical

None

WLAN + Bluetooth

Intel AX200 11ax, 2x2 + BT5.1

WWAN

None

SIM Card

None

Smart Card Reader

None

Monitor Cable

None

Case Material

CFRP/GFRP (Top), Aluminum (Bottom)

Bundled Accessories

None

Camera

720p + IR with ThinkShutter

Microphone

2x, Array

Color

Black, Weave

Keyboard

Backlit, English

Fingerprint Reader

Touch Style, Match-on-Chip

NFC

None

Color Calibrator

None

TPM

Discrete TPM 2.0

Battery

Integrated 80Wh

Power Adapter

135W Slim Tip

System Management

Intel vPro

Operating System

Windows 10 Pro 64, English

Bundled Software

None

Base Warranty

3-year, Depot

Bundled Service

None

EAN / UPC / JAN

194552377823

End of Support

2025-10-17

Announce Date

2019-09-17

Recommended Services

Best

3Y Lenovo Protect (Premier Support + Keep Your Drive + Accidental Damage Protection + Sealed Battery) (5PS0N73216)

Better

3Y Lenovo Support (Premier Support + Keep Your Drive + Sealed Battery) (5PS0N73159)

Good

3Y Premier Support Upgrade from 3Y Depot/CCI (5WS0V07092)

Notes:

Battery life is an estimated maximum. Actual battery life may vary based on many factors, including screen brightness, active applications, features, power management settings, battery age and conditioning, and other customer preferences.

California Electronic Waste Recycling Fee

In California, per state law, Lenovo charges an electronic waste recycling fee on this covered device at the time of sale of the product. For more information, go to:

<https://www.calrecycle.ca.gov/Electronics/Consumer>

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ThinkPad P1 (2nd Gen) Platform Specifications

Product Specifications Reference (PSREF)

Processor	9th Generation Intel® Core™ i5 / i7 / i9 Processor or Intel Xeon® E Processor										Dimensions	<i>WxDxH (non-touch):</i> 14.24" x 9.67" x 0.72"; 361.8mm x 245.7mm x 18.4mm <i>WxDxH (multi-touch):</i> 14.24" x 9.67" x 0.74"; 361.8mm x 245.7mm x 18.7mm		
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics			Weight	<i>Non-touch model:</i> starting at 3.75 lb / 1.7 kg; <i>Multi-touch model:</i> starting at 4.0 lb / 1.81 kg		
	i5-9400H	4	8	2.5 GHz	4.3 GHz	8MB	DDR4-2666	Intel UHD Graphics 630			Case color	Black paint (FHD model) or black weave (UHD model)		
	i7-9750H	6	12	2.6 GHz	4.5 GHz	12MB					Case material	<i>Display cover:</i> CFRP/GFRP hybrid; <i>Bottom:</i> Aluminum alloy		
	i7-9850H	6	12	2.6 GHz	4.6 GHz	12MB					Smart card reader	<i>Optional:</i> Smart card reader		
	i9-9880H	8	16	2.3 GHz	4.8 GHz	16MB						Media reader	SD Card reader (SD, SDHC, SDXC), supports UHS-II SD card	
	E-2276M	6	12	2.8 GHz	4.7 GHz	12MB	Intel UHD Graphics P630			Ports	Two USB 3.1 Gen 1 (one Always On), two USB 3.1 Type-C Gen 2 / Thunderbolt 3 (with the function of Power Delivery and DisplayPort), HDMI 2.0, Ethernet extension connector, headphone / microphone combo jack, optional smart card reader, SD card reader, security keyhole <i>* Power Delivery only supports power-out for charging peripherals</i> <i>* Depending on many factors, actual data transfer speed may be lower than theoretical speed</i>			
Graphics	Intel UHD Graphics 630 in processor only or Intel UHD Graphics 630 or P630 in processor and NVIDIA® Quadro® T1000 or T2000, 4GB GDDR5 memory; supports external digital monitor via HDMI or Thunderbolt™; supports four independent displays; Max resolution: 5K@60Hz (Thunderbolt); 4K@60Hz (HDMI)										Monitor cable (optional)	<i>HDMI to VGA:</i> Lenovo HDMI to VGA Monitor Adapter <i>USB-C to VGA:</i> Lenovo USB-C to VGA Adapter <i>USB-C to DP:</i> Lenovo USB-C to DisplayPort Adapter <i>Optional:</i> ThinkPad Ethernet Extension Cable		
Chipset	Mobile Intel CM246 Chipset										Bundled Accy	Camera (optional)		
Memory	64GB max / 2666MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, two DDR4 SO-DIMM sockets												Audio support	<i>One of the following, configurable by model:</i> • HD720p camera with ThinkShutter camera privacy, fixed focus • IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus HD Audio, Synaptic® CX11880 codec / stereo speakers, 2W x 2, Dolby® Audio™ Premium / optional dual array far-field microphone, headphone / microphone combo jack, Dolby Atmos® sound system
Display	Size	Resolution		Type	Surface	Brightness	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle	Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight		
	15.6"	FHD (1920x1080)		IPS	Anti-glare	300 nits	16:9	700:1	72% NTSC	170°	UltraNav™	TrackPoint® pointing device and buttonless glass surface multi-touch touchpad		
	15.6"	FHD (1920x1080) Dolby Vision™ HDR		IPS	Anti-glare	500 nits	16:9	1200:1	72% NTSC	170°	Security	Power-on password, hard disk password, supervisor password, security keyhole		
	15.6"	UHD (3840x2160) Dolby Vision HDR		IPS	Anti-glare	500 nits	16:9	1200:1	100% Adobe	170°	Security chip	Discrete TPM 2.0, TCG Certified		
	15.6"	UHD (3840x2160) Dolby Vision HDR, Multi-touch		OLED	Anti-reflection / Anti-smudge	SDR 400nit, HDR 500nit (peak)	16:9	100000:1	100% DCI-P3	170°	System Mgt (opt)	Intel vPro Technology		
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture (UHD OLED only), AR (anti-reflection) / AS (anti-smudge) coating										Fingerprint reader	Touch style match on chip fingerprint reader on the keyboard bezel		
Pen (optional)	Lenovo Pen Pro (special bid only)										Color calibration	<i>Optional:</i> X-Rite Pantone factory color calibration (UHD model only)		
Storage	Up to two M.2 SSD, supports single sided M.2 2280 drives only										NFC	None		
RAID (optional)	M.2 2280 SSD / PCIe NVMe 3.0 x 4										Battery	Integrated Li-ion 80Wh battery, supports Rapid Charge (charge up to 80% in 1hr)		
Optical	RAID 0/1 support										Max battery life	<i>MobileMark® 2014:</i> 13.8 hr <i>* Battery life varies significantly with settings, usage, & other factors</i>		
Ethernet	None										AC adapter	135W slim tip AC adapter		
WLAN (optional)	Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro) via bundled or optional ThinkPad Ethernet Extension Cable										Operating system	<i>One of the following, configurable by model:</i> • Windows® 10 Home 64 • Windows 10 Pro 64 • Windows 10 Pro 64 for Workstations		
Bluetooth™ (opt)	Intel Wi-Fi 6 AX200, Wi-Fi 2x2 802.11ax + Bluetooth 5.1										Limited warranty	<i>One of the following, configurable by model:</i> • 1-year depot repair service • 1-year depot with 2-year system board repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service		
WWAN	Bluetooth 5.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter										Mil-Spec test	MIL-STD-810G military testing		
SIM card	None										Environment	EPEAT™ Silver; ENERGY STAR® 7.1; RoHS-compliant		

Note: The specifications above may not be available in all regions.

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November 2019

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